FIELD NOTES: AFRICA
EMBIID LABELS 1957 – 1959

1957

Embiid notes
50 Km S.E. Isckela, Mayumbe, Lower Congo
VII-27-57 Dry season. Canyon in Magnificent forest, now thinned for planting substory of Cacoa trees.

(1.) Most common embiid Pleisembia n. sp.. ♀ banded with dark head, thorax and abdomen ♂ with cream cerci, pale brown. Typical habitat under large, stiff bark flakes on large buttressed trees. Webs visible around edges, Only occasionally do tunnels extend out on surface. Each web occupied by one individual or ♀ and brood. Most ♂ penultimate, few adults many mature females and small young. Eggs piled in cluster in densest portion of tunnel. Feces piled in this area as well. Eggs preserved in vial.

(2.) Teratembia Tiny colonys in vertical crevices of bark few specimens cultured with above sp. 1 ♂ collated

(3) 1 large black ♀ with orange prothorax + young in single colony under vine on large tree. Rare

(4) Small checkered sp. no adult males some penult more superficial webbing, tunnels well-defined on bark surface and under appressed vine on bark of small tree. One colony also on limbs of recently felled large tree

Heterembia variegata Rosa

(1) =

FIELD NOTES: AFRICA
EMBIID LABELS 1957 – 1959

5 Mi S. Tshela VII-26-57
Large buttressed tree in oil palm grove.
Large embiid colony visible from road (about 2' high and 15 inches wide) with neat tunnels radiating over surface. Tunnels lead beneath brittle bark flakes and ripples. Embiids not in surface tunnels but crowded under bark.
A small, shining tan sp. devoid of pattern all seemed to be in the same instar without traces of wing pads. Photos taken.

36 Kms N Matadi VII-27-57
Thinned primary forest planted in bananas
(1) Machadoembia on large tree with coarse bark flakes, many mature ♂ and ♀, few smaller grey. Colony extensive – extending upward ten feet, tunnels along edges of bark flakes and beneath

(2)

12 Mi E. Matadi VII-28 Dry season – Large tree in creek forest in burned grasslands. Embiids (possibly sundersii) in small bark colonys on surface of large tree.

39 Mi E. Matadi VII-28 Dry season, rolling, rocky, grassy, hills embiids on surface of rocks with tunnels retreating into crevices. Young collected in colonies in matted leaves between rocks in shade of small tree. Apparently avoid soil contact for some are under stones.

40 Mi E. Matadi VII-28 Dry season, rolling grassy hills with small trees. Colonies on nearly vertical road banks silk spreads out a short distance from holes penetrating bank. These appear to follow dead roots (blackened) which serves as food. Large soft skinned, shining species in holes. Very sluggish, no wing pads. Can this be a parthenogenic sp.? Resembles species I got at Ft. Noire on bark. Silk tunnels stretch more than usual

FIELD NOTES: AFRICA
EMBIID LABELS 1957 – 1959

* Thysville B. Congo July 30–31 Dry season
Forest (little disturbed) west edge of town
Flat white, small embiid tunnels in papery-layered bark. all old no embiids seen. Colonies very scarce in spite of thorough search

* Kolo (17 Km S of Thysville) July 31 Dry season
scattered trees in forest of esp. station
① apparently same embiid as above esp. in bark of oil palms
② Large brown embiid ♀s with white terminal tarsal segments in individual webs beneath large brittle bark flakes of large tree. Tunnels had purplish luster silk stretches. Some genus as Matadi – Thysville road bank but females darker
No eggs or young seen. Older colonies at tree base, recent ones higher up.

* 57 Km S.E. Thysville Dry season July 31
① Small sp. of embiid on road bank encrusted with small lichens appears to be same as one collected between rocks ~~wood~~ east of Matadi
2 individuals cultured.
② A few colonies of #2 above also in bank, no culture

* 8 Mi S.E Kisantu ~~July~~ August 1
Purplish embiid common in charred oil palm bark but none collected. Small Thysville sp also present but no culture.

* Road from Kisantu to Aug 1 Congo over dry sandy hills. Forest small, very dry
Embiids not apparent. Small teratembiid(?) present in flaky bark but none collected. Also a larger sp (Pleurembia?) present. all colonies unoccupied. Season very dry, cold.

FIELD NOTES: AFRICA
EMBIID LABELS 1957 – 1959

80 Mi S.E. KISANTU DRY LOW WOODS Stops 23
Embiid colonies under logs on ground (in bank) all old
Culture of 2-3 juvenile in colony under dry bank of
small stumps. Crematogaster numerous.

127 Mi S.E. KISANTU Dry low woods Stops 26
prob same sps. as above. Large, mostly old, colony
in rough, reddish bank of 6" log on ground. Embiid
tunnels flat dense, white, ramifying through bark
layers. 1 female and 1+ young cultured.

~~Both~~ Colonies Embiids of this type frequently observed along
road but never occupied. Apparently long dry
season in combination with sandy soil and no
rocks greatly reduces embiid fauna in this region.
Frequent fires also a hinderance to the groups.

15 Mi W. Popokabaka VIII-3-57 Savanna Woods
2 sp. in road bank, slightly encrusted with lichens
and moss. One a black Scelembia? with pale
thoracic membranes (also found under bark on ground
Also the ten shining large species. Genus ?
spps in separate cultures
Road bank sandy but firm. Superficial tunnels
lead into a deep tunnel penetrating to moisture
by way of insect burrow or rotted root.
Photos taken of Scelembia Color & B&W.

5 Mi W. Popokabaka VIII-3-57
1 pale n. gen in stag horn on bark fern - cultured

55 Mi N. Popokabaka VIII-3-57 Savanna Woods
Scelembia in sandy road bank good culture of
♀♀ and young of several stage and eggs. Sand very
loose and dry on surface beneath thin crust
tunnels follow insect burrows.

33 Mi E. Kenge VIII-6-57 Dry season
Heavy gallery forest 2 spps. embiids
① Smaller pale spp with males mature in superficial
bank colonies fully exposed, white silk ♀. One colony
followed small vine. No debris on tunnels
② Large spp. with dull black ♀ exposed tunnels
on butts of stumps and bank of trees
♀ slow to establish new tunnels. Eggs & 1st instar young present
no males.

117 mi E. KENGE Small gallery forest. Dry season
Large colonies of dull black sp. (#2 above) covering
entire limbs and portions of trunks.

56 Mi N. LEVERVILLE VII-5-57 (one culture)
Vertical road bank in reddish sandy soil encrusted
with fine moss and lichens. 2 spps. present
① Small black Scelembia (?) rarer beneath moss
and following holes to damp zone. Young present.
② Large ♀ with purplish web more common
one ♀ per web which follow neat circular holes
(90° to bank surface) which may be dug by the occupant.
One with ichneumonid larvae. 1st in star XI-XII-57 Killed XII-19-57.

43 Mi N. Leverville VIII-5-57 (one culture)
Dry primary forest. Purple web spps under bark
flakes (papery) of sampling. Otherwise rare.

21 Mi N. ~~Ka~~ Kikwit VIII-5-57
♀s of purplish sp. under and in bark crevices
in large trees of heavy primary forest

15 Mi N. Kikwit VIII-5 Plesembia ?
One large colony on curled dead bark of
large tree in heavy primary forest. Very thin
walled tunnels under thin sheet of silk. All
individuals about half grown, appear to be progeny
of one female. 3 Microphysid bugs present

17 Mi NW. Tschikapa VIII-9 Scelembia
Large, primary forest. Extensive colonies of Scelembia
on large and small trunks. ♂ + ♀ mature. One colony
extended up 8" trunk from ground up two 25 ft.

FIELD NOTES: AFRICA
EMBIID LABELS 1957 – 1959

EMBIOPTERA NOTES

DAKAR: JARDIN HANN small Embia fair in small colony in dead bark of underside of limb of small tree. O saundersii common in bark of living trees – especially eucalyptus. Area dry, sandy, free of stones. Numerous trees of many species but embiids scarce if otherwise present.

Kept culture

CORNICHE (a road around the rocky shore of seaward side of the town). Embiid tunnels were under stone shaded by thorn trees. Area much disturbed and polluted by man.

One pale (Embia?) female captured and cultured. Could be vagrierei.

Note: Dakar had barely had its first rains of the wet season.

CONACRY: Raing season. Town streets lined with large shade trees mostly Mango, some native. Saundersii very common in bark crevices. Series of ♂♂ & ♀♀ taken. No true of native species.

MONROVIA LIBERIA (5 mi N.W. of town)

Collecting done in residual forest near river bank. Many citrus, breadfruit and Mango trees. Large embiid (Pleasantia) present on almost every tree. All stages present but most males in penult. stage (many cultured). Colonies both superficial and concealed in rotting bark. Palm trunks often used. Microphysid bugs common in tunnels

FIELD NOTES: AFRICA
EMBIID LABELS 1957 – 1959

No continuous colonies noted. Size of colony proportional to growth of the young of ent parent. Saundersii sparingly present. Pluembia? especially abundant on trunks of rubber trees in plantations. Esp. around tapping scars.

Be small mature dry silt at opening of tunnel with only antennae projecting

ABIDJAN, IVORY COAST

July 7, 1957 Rainy season

saundersii present on trees in port area
Visited Parc National de Banco about 8 KM. NW. of town. This is a patch of virgin rain forest – very dense with heavy undergrowth.

(1) Species #1 dull reddish-brown, small, dorso ventrally flat. Colonies extended along small vines appressed to bark of largest buttressed trees in forest. 1 male (wings damaged) collected a few females and young cultured Teratembiid

(2) Species # 2 very small, compressed, ton, shining. Colonies exposed on surface of tree trunks and horizontal trunk (living) on rough bark Colonies extensive in area covered. Good series cultured. Teratembiid

(3) Species #3 Fair sized colony following veins and crevices on small roadside tree. Tunnels exposed but often covered with ground up bark and extended into crevices. Good series (incl penult males) cultured. Pluembia ?

gaboonica

PORT GENTIL, GABON

on Manji island mouth of OGOWE R.

VII-10-57 Dry season

(1) Tree trunk with fair sized colony of exposed tunnels ramifying from crevice. Contained checked medium sized species several juveniles cultured N. gen? Embiidae

(2) Common on small swamp forest trees with soft vertical-creviced bark. Colonies single, small, follow edges of bark flakes and termite tunnels. Usually covered with ground up bark dust by occupants. Numerous individuals cultured. Several adult males preserved – delicate, pale, black head teratembiid – very small sp.

Note: Above lots were found on trees in swamps forests in drainage of sandy, grassy flat cape. No large forest present.

FIELD NOTES: AFRICA
1957 – 1959
EMBIID LABELS

(3) O saundersii abundant on trees in town. Also found in swamp forest 2 mi S of town. In time the species should swamp out all evidence of native species

(4) Large dark ♀ with yellow lateral spots on abdomen and yellow arci. 1 and third coxae. Colonies on soft mossy bark, single ♀ per colony and 1st instar young. Silk obscured by debris coating Trees located at edge of meadow, forest open, flooded in rainy season. 2♀ attacked and began to eat damaged penult ♂. Are isolated colonies due to a degree of cannibalism?

(5) Trees in Mangrove swamps, large trees with very hard, dry, cracked bark. Embiid tunnels follow interstices of bark flakes and work beneath edges. Colonies conspicuous devoid of debris covering largest covered 3"×6" area. contained about ten brown shining young teralembiid ? Other yellowish smaller teralembiid probably mixed in.

(6) Teralembiid colony under mossy bark flake on tree with #1.

Note 1st instar young of #4 swarming on and around ♀s next morning.

Further note on #4. Two penult ♂♂ caught VII-12-57. One ♀ with eggs great mass 1/2" long ↑ 100+- plastered together in bark crevice. Forest limited trees in dark shade, underside of arched and horizontal branches favored. Beneath old tunnels bark is denuded of moss etc, and even the bark is grooved by the chewing activity of the insects. The size of a colony is quite limited considering the embiid's size

POINTE NOIRE, MIDDLE CONGO

VII-16-57 dry season

(1) Hill in town covered with old mango trees devoid of embiids except one large native arecia. This had brittle, moss-free bark flakes with scattered embiid colonies apparently same sp. as #4 opposite page. one male collected plus adult ♀s. Cultured mat. ♀, eggs and young. Trunk swarmed with large Crematogaster ants.

(2) O. saundersii fairly common on shade trees in town – no culture.

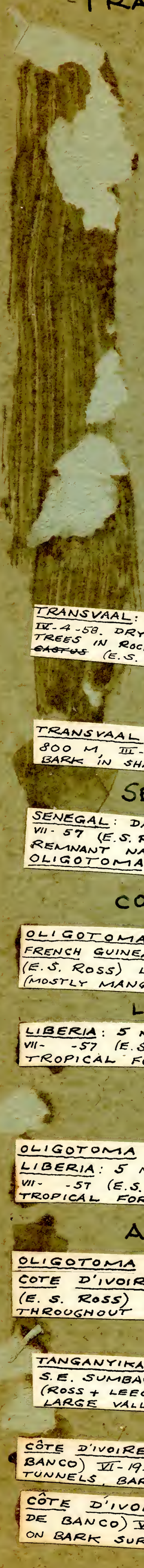
(3) On Mango trunks in grove in town and on other trees along street found colonies of new, shining brown, pale venter females. No ♂♂ or juveniles, only mat ♀. Colonies individual, extended into bark cracks, silk distinct – tends to shield like spider silk. ♀♀ cultured

FIELD NOTES: AFRICA
1957 – 1959

EMBIID LABELS

LOANDA ANGOLA VII-18-57
Dry season, weather cool, overcast
① Garden of British Consulate, bare-baked trees with saundersii common, malkini less common.
② Native vegitation 6 Km North of Loanda.
Ground sandy, no stones. Scrub and grass with scattered trees, esp. Baobab. Malkini common on bark of Baobab, esp. under lichen clumps, bark flakes, and crevices. Colonies highly concentrated, chalky-white, silk highly visible. Embiids concentrated and crowded – one female and brood, often several stages as though eggs laid over a period of time, few males mature. This appears to be the typical habitat of malkini.

MATADI, CONGO VII-22-57 (Dry season.
① Saundersii common in crevices of cliffs, bank near Nuki.
Climates dry season appears to discourage bark-surface colonies.



TRANSVAAL

TRANSVAAL: 15 MI. W. PONGOLO 500M, IV-4-58. DRY, COARSE BARK OF SMALL TREES IN ROCKY CYN, LOW TREES, EUPHORBS ~~CACTUS~~ (E.S. ROSS) ALOES

TRANSVAAL: N. END WYLLIES POORT, 800 M, III-25-58 CRACKS OF COARSE BARK IN SHADE (E.S. ROSS)

SENEGAL

SENEGAL: DAKAR (JARDIN HANN) VII-57 (E.S. ROSS) DRY BARK IN PARK REMNANT NATIVE BUSH DRY SEASON
OLIGOTOMA SAUNDERSII (WESTW.)

CONACRY

OLIGOTOMA SAUNDERSII (WESTW.)
FRENCH GUINEA: CONACRY VII- -57 (E.S. ROSS) LARGE SHADE TREES (MOSTLY MANGO) ALONG STS. - BARK

LIBERIA

LIBERIA: 5 MI. N.W. MONROVIA VII- -57 (E.S. ROSS) BARK, REMNANT TROPICAL FOREST ♂♀ MATURE

OLIGOTOMA SAUNDERSII (WESTW.)
LIBERIA: 5 MI. N.W. MONROVIA VII- -57 (E.S. ROSS) BARK, REMNANT TROPICAL FOREST

ABIDJAN

OLIGOTOMA SAUNDERSII (WESTW.)
COTE D'IVOIRE: ABIDJAN, VII-7-57 (E. S. ROSS) SHADE TREE BARK THROUGHOUT TOWN

TANGANYIKA: MTEMBWA VALLEY 43 MI. S.E. SUMBAWANGA, 1530 M II-13-58 (ROSS + LEECH) DRY BARK FLAKES OF LARGE VALLEY ACACIA

CÔTE D'IVOIRE: ABIDJAN (FORÊT DE BANCO) VI-19-58 (E.S. ROSS) SURFACE TUNNELS, BARK OF LARGE FOREST TREES

CÔTE D'IVOIRE: ABIDJAN (FORÊT DE BANCO) VI-19-58 (E.S. ROSS) WEBS ON BARK SURFACE, LARGE FOREST TREES

GHANA

GHANA: 6 MI. N. TAKORADI VI-15-58 (E.S. ROSS) BARK FLAKES & CRACKS, LARGE TREES, TROP. FOREST

GHANA: TAKORADI, VI-14-58 (E.S. ROSS) SURFACE WEBS ON UPPER LIMBS & TRUNKS OF SHADE TREES

OLIGOTOMA SAUNDERSII (WESTW.)
GHANA: TAKORADI VI-14-58 (E.S. ROSS) BARK CREV. SHADE TREES

TANGANYIKA

TANGANYIKA: 10 MI. S. AMANI (BASE OF USUMBARA MTS), 160 M, XI-11-57 (ROSS) MOSSY BARK FLAKES, SMALL TREES

OLIGOTOMA SAUNDERSII (WESTW.)
TANGANYIKA: 10 MI. S. AMANI (BASE OF USUMBARA MTS.) 160 M XI-11-57 (ROSS) MOSSY BARK FLAKES OF SMALL TREES

TANGANYIKA: BUNDUKI, S. SIDE ULUGURU MTS., 1200 M, XI-14-57 (E.S. ROSS) MOSSY ROAD BANK SHADE

TANGANYIKA: BUNDUKI S. SLOPE, MTS. 1200 M XI-14-57) MOSSY BARK AND TRAIL BANKS IN REMNANT MTN. FOREST

TANGANYIKA: CHA SHIMBA FOREST, KWALE, 1200 M. XI-6-57 (ROSS) BARK OF TREES + STUMPS IN TROPICAL FOREST

TANGANYIKA: 75 MI. S. DODOMA, M, XI-17-57 (E.S. ROSS) ROCKY THORN BUSH WITH BAOBABS 2 JUV ♂♀ MATED, SERIES THEIR PROG.

TANGANYIKA: 21 MI. N. IRINGA, 1200M (ROSS + LEECH) STONES + MATTED LEAVES ON SHADED WOODED SLOPE

21 MI. N. IRINGA, 58 (ROSS + LEECH), S + MATTED LEAVES IALL HILL, DRY SEASON.

TANGANYIKA: IRWIN FARM, 59 MI. S.E. SUMBAWANGA, 1820 M, II-13-58 (ROSS + LEECH) HARD BARK CRACKS PASTURE TREE

TANGANYIKA: 21 MI. N. IRINGA, 1200 M, IV-1-58 (E.S. ROSS) UNDER STONES + MATTED LEAVES IN SHADE, SMALL HILL, DRY SEASON.

TANGANYIKA: N.W. END LAKE MANYARA, 3150' EL, X-26-57 BARK OF DEAD STUMP IN THORN FOREST, 31 EGGS LAID I-6-58

TANGANYIKA: N.W. END LAKE MANYARA, 3150 FT. EL. X-27-57 (ROSS + LEECH) UNDER STONES IN DRY ACACIA FOREST

TANGANYIKA: MBISI FOREST (E. OF SUMBAWANGA) 2180 M II-14-58 ♂♀ UNDER STONES ON GRASSY HILL (E.S. ROSS)

TANGANYIKA: 6 MI. E. MONGO (LUSHOTO RD) USUMBARA MTS. 830 M., N- -57 (E.S. ROSS) UNDER THIN BARK CYN TREES

TANGANYIKA: SERONERA, SERENGETI PLAIN M, X-23-57 UNDER STONE EDGE GRANITE KOPJE

TANGANYIKA: SUMBAWANGA, 1800 M, II-14-58 (ROSS + LEECH) CRACK IN BASE OF TREE IN CORN FIELD

TANGANYIKA: SUMBAWANGA, 1800 M, II-14-58 (ROSS + LEECH) SCARRED TRUNKS OF PLANTED ROADSIDE TREES

CONGO KIL — SAMPWE

CONGO: 44 MI. W. KILEBA (KILEBA-LUANZA RD.), 1110 M (E.S. ROSS) ♀s + 1ST INSTAR IN INSECT BURROWS ON TIP OF DEAD SAPLING. SAV. WDS.

CONGO: 43 MI. N.W. KOLWEZI 1100 M., I-30-58 (♀, EGGS + 1ST INSTAR) (E.S. ROSS) CRACKS OF DEAD LIMBS + TRUNKS.

CONGO: 43 MI. N.W. KOLWEZI, 1100 M, DENSE SAV WOODS EX FRASS-COVERED SINGLE ♀ COLONY IN FORK OF SAPLING ♀ + 1ST INSTAR I-30-58 (E.S. ROSS)

CONGO: 43 MI. N. LEVERVILLE VIII-5-57 (E.S. ROSS) PAPERY BARK FLAKES OF SMALL TREES IN DRY PRIMARY FOREST

CONGO: 56 MI. N. LEVERVILLE, VIII-5-57 (E.S. ROSS) BURROWS IN VERTICAL ROAD BANK

CONGO: 56 MI. N. LEVERVILLE, VIII-5-57 (E.S. ROSS) BURROWS IN VERTICAL ROAD BANK

CONGO: 10 MI. S. LUBERO, 2150 M, IX-23-57, (E.S. ROSS) LICHENS OF BARK SMALL RECENT CUT TREE, MTN. FOR.

CONGO: 22 MI. N. LUBUDI, 1050 M, II-4-58 (E.S. ROSS) LICHENS AND SURFACE CRACKS OF ROADSIDE ROCKS IN SAVANNA WOODS 1ST + SECOND INSTAR ANTEPENULT. ♂s VI-20-58

CONGO: 21 MI. W. LUSAMBO, VIII-11-57, (E.S. ROSS) THIN BARK FLAKES TROP. FOREST LARGE TREE

CONGO: 21 MI. W. LUSAMBO, VIII-11-57 (E.S. ROSS) THIN BARK FLAKES OF LARGE TREES IN TROPICAL FOREST

OLIGOTOMA SAUNDERSII (WESTW.)
CONGO: MATADI, VII-22-58 (ROSS) ROCK CREVICES IN RIVER GORGE

CONGO: 20 MI. N. MATADI, VII-25-58, BARK IN TROPICAL FOREST (E.S. ROSS)

CONGO: 36 KM. N. MATADI (E.S. ROSS) VII-28-57 BARK OF LARGE TREE IN THINNED PRIMARY FOREST

MACHADOEMBIA
CONGO: 36 KM. N. MATADI, VII-27-57 (ROSS + LEECH) EXTENSIVE WEBS ON COARSE-BARKED TREE IN THINNED TROPICAL FOREST.

OLIGOTOMA SAUNDERSII (WESTW.)
CONGO: 12 MI. E. MATADI, VII-28-57 (E.S. ROSS) BARK OF LARGE TREE IN CREEK FOREST IN GRASSLAND

CONGO: 18 MI. E. MATADI SILTY ROAD BK. IN HIGH GRASS SAVANNA XII-25-57 (ROSS + LEECH)

SCELEMBIA
CONGO: 39 MI. E. MATADI, VII-28-57 (E.S. ROSS) ON AND BETWEEN ROCKS ALONG ROAD IN BURNED GRASSLAND

CONGO: 40 MI. E. MATADI VII-28-57 (ROSS + LEECH) IN DEEP BURROWS ON VERTICAL ROAD BANK

CONGO: ESCARPMENT BASE BELOW MUNOWE, PARC L'UPEMBA, 950 M I-18-58 (E.S. ROSS) SIDES OF ROCKS IN SAVANNA WOODLAND

CONGO: MUYE, PARC NAT. L'UPEMBA 1600 M, I-17-58 (E.S. ROSS) DRY BARK CRACKS + FLAKES, OPEN HILL SAVANNA

CONGO: MUYE, PARC NAT. L'UPEMBA, 1600 M, I-17-58 (E.S. ROSS) ROTTING LEAVES UNDER STONES. OPEN HILL SAVANNA

SCELEMBIA
CONGO: 55 MI. N. POPOKABAKA, VIII-3-57 (ROSS + LEECH) BURROWS IN SANDY ROAD BANK DRY SEASON.

CONGO: W. SIDE RUWENZORI, MTN. FOREST ZONE, 2000 M, IX-25-57 TREE TRUNK CREVICES IN HEAVY FOREST (E.S. ROSS)

CONGO: 4 MI. S. SAMPWE, 1000 M, I-21-58 (E.S. ROSS) BARK FLAKES IN SAVANNA WOODS

CONGO: 17 MI. S. SAMPWE, 1000 M I-21-58 (E.S. ROSS) ♀s + 1ST INSTAR DRY BARK FLAKES OF STUMP

EMBIA SMAELENI NAVÁS
CONGO: 17 MI. S. SAMPWE, 1000 M, CREVICES DEAD SNAGS + LIMBS ON GROUND COATED WITH TERMITE MUD, IN HIGH SAVANNA WOODS (ROSS)

CONGO SANDOA - UVIRA

CONGO: 19 MI. E. SANDOA, 950 M, II-1-58 (E.S. ROSS) BRANCH BUTTS IN SHRUB LIKE TREES

CONGO: 50 KM. S.E. TCHELA MAYUMBE, VII-27-57 TROPICAL FOREST IN CANYON, STIFF BARK FLAKES (E.S. ROSS)

CONGO: 50 KM. S.E. TCHELA MAYUMBE, VII-27-57 (E.S. ROSS) STIFF BARK FLAKES IN TROPICAL FOREST CANYON

CONGO: 50 KM. S.E. TCHELA, MAYUMBE VII-27-57 (E.S. ROSS) BARK IN TROPICAL FOREST

CONGO: 50 KM. S.E. TCHELA MAYUMBE, VII-27-57 (E.S. ROSS) UNDER VINE ON LARGE TRUNK IN TROPICAL FOREST CANYON

CONGO: 3 MI. E TCHELA (E.S. ROSS) EX 1♀ + EGGS IN SPLINTERED SAPLING IN TROPICAL FOREST

SCELEMBIA

CONGO: 5 MI. S. TCHELA MAYUMBE, VII-26-57 (E.S. ROSS) LARGE COLONY ON SURFACE, LARGE BUTTRESSED TREE IN OIL PALM GROVE

CONGO: 50 KM. S.E. TCHELA (MAYOMBE FOREST) VII-27-59 (E.S. ROSS) BARK FLAKES IN RAIN FOREST

CONGO: 50 KM. S.E. TCHELA (MAYUMBE FOREST) VII-27-59 (E.S. ROSS) BARK FLAKES IN RAIN FOREST

CONGO: TSHIBATI, LWIRO RIVER, KIVU, 2000 M, MOSSY BARK IN SHADE, MTN FOREST (E.S. ROSS)

CONGO: TSHIBATI, 47 KM. N. BUKAVU, 2000 M (E.S. ROSS) SHADED TRUNKS IN MTN. FOREST NEAR LWIRO RIVER

SCELEMBIA

CONGO: 17 MI. N.W. TSCHIKAPA VIII-9-57 (ROSS + LEECH) EXTENSIVE SURFACE WEBS ON LARGE + SMALL TRUNKS IN PRIMARY FOREST

CONGO: 15 MI. N.W. TSHIKAPA, VIII-8-57 (♂s + EGGS) (E.S. ROSS) COARSE BARK FLAKES IN FOREST

CONGO: 5 MI. W. TSHINSENDA, 1400 M, II-8-58 (E.S. ROSS) LICHEN PATCH COLONIES ON ROCK OUTCROPS

CONGO: 25 MI. S. UVIRA (ROSS) BARK FLAKES OF LARGE TREE, SHADED FOREST REMNANT

RUANDA

RUANDA-URUNDI: 60 KM. W. ASTRIDA, 2400 M XII-10-57 (E.S. ROSS) ROAD BANK CRACKS IN WET MTN. FOREST

RUANDA: 6 KM. S. GABIRO 1475 M, XII-9-57 (ROSS + LEECH) TUNNELS ON SURFACE OF SILTY ROAD BANK RADIATE FROM DEEP (6"-12") BURROWS IN LOAM.

URUNDI

URUNDI: 2 MI. W. BURURI, 1710 M, I-8-58 BARK OF TREE FERNS IN MTN. FOREST CYN (E.S. ROSS)

URUNDI: 2 MI. W. BURURI, 1710 M, I-8-58 BARK FLAKES OF CREEK-SIDE TREE IN MTN FOREST CYN. (ROSS)

URUNDI: 13 MI. S.E. BURURI 1850 M I-8-58 CYPRESS BARK AND MOSSY ROAD BANK IN SHADE (ROSS + LEECH)

URUNDI: 13 MI. S.E. BURURI, 1850 M, I-8-58 MOSSY ROAD BK UNDER CYPRESS (ROSS + LEECH)

URUNDI: 13 MI. S.E. BURURI, 1850 M I-8-58 CYPRESS BARK AND MOSSY ROAD BANK (ROSS + LEECH)

URUNDI: 9 MI. N. NYANZA LAC, 800 M, I-7-58 (E.S. ROSS) IN DEAD LEAVES UNDER STONES IN WOODS

URUNDI: 9 MI. N. NYANZA LAC 800 M I-7-58; ♀s, EGGS + 1ST INSTAR ON BARK AND ROAD BANK LICHENS

URUNDI: 13 MI. N. NYANZA LAC 800 M, I-7-58 (E.S. ROSS) COARSE BARK FLAKES, LARGE TREES IN REMNANT FOREST AMONG BANANAS

GABON

OLIGOTOMA SAUNDERSII (WEST W.) GABON: POINTE NOIRE, VII-16-57 (E.S. ROSS) SHADE TREE BARK

OLIGOTOMA SAUNDERSII (WEST W.) GABON: PORT GENTIL, VII-10-57 (E.S. ROSS) SHADE TREES IN TOWN + IN ONE PATCH OF SWAMP FOREST

GABON: PORT GENTIL VII-10-57 (E.S. ROSS) PATCH COLONIES IN SOFT BARK FLAKES OF LOW JUNGLE

SCELEMBIA

GABON: PORT GENTIL, VII-10-57, (E.S. ROSS) CREVICES OF HARD, COARSE BARK, LARGE COLONY

GABON: PORT GENTIL, VII-10-57 (E.S. ROSS) MOSSY BARK FLAKE IN LOW, SHADED JUNGE

GABON: PORT GENTIL VII-10-57 (E.S. ROSS) SWAMP FOREST TUNNELS FOLLOW VERTICAL BARK CREVICES

GABON: POINTE NOIRE, VII-16-57, BURROWING IN COARSE BARK OF FOREST REMNANT TREES ALONG ST. (E.S. ROSS)

RUANDA: 18 MI. S. KAKITUMBA, 1475 M XII-7-57 (ROSS + LEECH) UNDER STONES IN HILLY, GRASSY SAVANNA

RUANDA: 18 MI. S. KAKITUMBA, 1475 M, XII-7-57 (ROSS + LEECH) UNDER STONES IN HILLY, GRASSY SAVANNA

CONGO A — KIK

CONGO: 16 MI. S. ALBERTVILLE, 1010 M, I-12-58 (E.S. ROSS) DRY BARK LARGE TREE IN CREEK GALLERY FOREST

CONGO: 71 MI. S. ALBERTVILLE, 1320 M, I-13-58 (E.S. ROSS) LICHENS AND ORCHIDS ON SMALL TREES IN SWAMP JUNGLE IN GRASSLAND

CONGO: 21 MI. N.W. BUKAMA (HAKANSSON MTS.) 750 M, II-3-58 (E.S. ROSS) DRY BARK FLAKES OF DEAD TRUNKS

CONGO: HAKANASSON MTS, 21 MI. N. BUKAMA, 750 M, II-3-58 (ROSS) BARK FLAKES UNDERSIDE OF LOG

CONGO: ELISABETHVILLE AIRPORT 1350 M, I-26-58 (ROSS + LEECH) DRY BARK OF HIGH STUMP

CONGO: 4 MI. N.E. ELISABETHVILLE, 1280 M, I-25-58 (E.S. ROSS) UNDERSIDE ELEVATED LOG IN SAV. WOODS

CONGO: 4 MI. N. E. ELISABETHVILLE, 1280 M, I-25-58 (E.S. ROSS) DOME TERMITE MDS. + RD. BKS IN SAV. WDS.

CONGO: F.I.S. CAMP KM. S. WALIKALI, 700 M, XII-21-57, BARK OF 'SAPLING' STOCKADE IN HIGH TROPICAL FOREST (ROSS)

CONGO: F.I.S. CAMP, KM. S. WALIKALI, 700 M, XII-21-57 BARK OF LARGE DEAD TRUNK (ROSS + LEECH)

CONGO: F.I.S. CAMP KM. S. WALIKALE, 700 M, XII-22-57 (E.S. ROSS) BARK OF LARGE TREES IN PRIMARY FOREST

CONGO: F.I.S. CAMP KM. S. WALIKALI, 700 M, XII-21-57, BARK OF 'SAPLING' STOCKADE IN HIGH TROPICAL FOREST (ROSS)

CONGO: 15 MI. W. POPOKABAKA, EX COLONY EX 1 JUV. ♀, MATURED AND LAID EGGS PARTHENOGENETICALLY X-2-57 1ST INSTAR XII-20-57, 3RD VI-1-58

CONGO: 6 MI. S. FIZI, 1320 M, I-11-58 (ROSS + LEECH), ROAD BANK IN HIGH GRASS SAVANNA HILLS

CONGO: 5 MI. S. FIZI 1320 M. I-11-58 (E.S. ROSS) FINELY MOSSED BARK IN SHADED TREE CLUMP

CONGO: 5 MI. S. FIZI, 1320 M, I-11-58 (ROSS) CRACKS IN DEAD, SLENDER, FIRE CHARRED SAPLINGS IN HIGH GRASS SAVANNA, ♀s & 2ND INST.

CONGO: 13 MI. S. FIZI, 1300M, I-11-58 (E.S. ROSS) STUMP CRACK IN SAVANNA WOODS

CONGO: 55 MI. S. FIZI (13 MI. S. LUAMA) 850 M, I-11-58 (E.S. ROSS) DEAD VINE HANGING ON SHADED STUMP IN DENSE SAVANNA WOOD-JUNGLE

CONGO: 20 MI. N. GOMA, 1950 M, IX-10-58 (E.S. ROSS) MOSSY BARK MTN. FOREST ON LAVA FLOW

CONGO: 30 MI. S.E. JADOVILLE, 1250 M (E.S. ROSS) BARK FLAKES ON SMALL ROCKY HILL IN SAVANNA WDS.

CONGO: 30 MI. S.E. JADOVILLE, 1250M, I-27-58 (E.S. ROSS) SIDES OF ROCKS ON GROUND ON WOODED HILL

CONGO: 30 MI. S. JADOVILLE, 1250M, I-27-58 (E.S. ROSS) BARK FLAKES ON WOODED HILL

CONGO: 49 MI. N.W. JADOVILLE, 1410 M, I-29-58 (♀ + 1ST INSTAR) (ROSS + LEECH) ROAD BANK IN SAVANNA WOODS

CONGO: RIDGE S.W. MT. KAHUZI (KIVU) (HAGENIA ZONE) 2000 M (E.S. ROSS) CRACKS IN MOSSY ROAD BANK

CONGO: 4 MI. E. KAMITUGA, M, VIII-17-57 (E.S. ROSS), TUNNELS IN DENSE VINES ON TRUNK OF SMALL TREE IN AGRICULTURAL AREA NEAR FOREST

CONGO: 54 MI. N. KAPONA, 1520 M, I-13-58 (E.S. ROSS) COARSE BARK OF RECENT FELLED SAVANNA WD. TREE.

CONGO: 54 MI. N. KAPONA, 1520 M I-13-58 (♀ + 1ST INST) (E.S. ROSS), LOOSE BARK OF RECENTLY FELLED LARGE TREE

CONGO: 28 MI. N. KASAJI, 1070 M, I-31-58 (E.S. ROSS) LICHENS + CHIPS ON BARE SNAG IN SAVANNA WOODS

CONGO: 28 MI. N. KASAJI, 1070 M I-31-58 (E.S. ROSS) FRASS-SPECKED TUNNELS ON SURFACE OF DEAD LIMBS IN SAV. WOODS (ANTIPENULT. VI-15-58)

CONGO: 3 MI. E. KENGE, VIII-57 (E.S. ROSS) PROGENY OF 1♀ ON STUMP IN TROPICAL FOREST, JUVENILE MATURED & REPROD. PARTHENOGENETICALLY

CONGO: 3 MI. E. KENGE, VIII-1-57 (E.S. ROSS) EX. 1♀ BRED AS JUVENILE, NOT MATED, ON LOW STUMP IN FOREST

CONGO: 33 MI. E. KENGE, VIII-6-57 (E.S. ROSS) HEAVY GALLERY FOREST FULLY EXPOSED WEBS ON BARK

CONGO: 33 MI. E. KENGE VIII-6-57 (E.S. ROSS) STUMP BUTTS & TREE BARK, HEAVY GALLERY FOREST

CONGO: 117 MI. E. KENGE, VIII-57 (E.S. ROSS) WEBS COVERING ENTIRE LIMBS + TRUNKS IN GALLERY FOREST

CONGO: 15 MI. N. KIKWIT, VIII-5-57 (E.S. ROSS) LARGE SHEET COLONY ON DEAD BARK IN HEAVY PRIMARY FOR.

CONGO: 21 MI. N. KIKWIT VIII-5-57 (E.S. ROSS) IN & UNDER BARK FLAKES OF LARGE TREES IN PRIMARY FOREST

ANGOLA

ANGOLA: CACULA, 1530 M, V-25-58 (ROSS + LEECH) UNDER LOGS AND ON DOME TERMITE MDS IN DENSE SAPLING FOREST

ANGOLA: 1 MI. N. CACULA, 1530 M V-25-58 (E.S. ROSS) UNDER LOGS + ON DOME TERMITE MDS. DENSE SAPLING WOODS

ANGOLA: 1 MI. N. CACULA, 1530 M, V-25-58 (E.S. ROSS) SURFACE TUNNELS ON LIMBS + SMALL TRUNKS, SAPLING FOREST

ANGOLA: 6 MI. N.E. CAPOLO, 200M, VI-2-58 (E.S. ROSS) CUT OFF TRUNKS AND LEAF CLUSTERS IN JUNGLE THICKET IN OTHERWISE SPARSE SAVANNA-GRASS

OLIGOTOMA SAUNDERSII WESTW.
ANGOLA: CAPOLO, 110M (E.S. ROSS) TUNNELS ON ROAD BANK LEDGE RADIATE FROM DEEP CRACKS.

ANGOLA: 6 MI. N. CHIBIA, 1500 M, V-20-58, BARK OF DEAD TREE + LICHENS BRACHYSTEGIA WOODLAND

ANGOLA: 24 MI. S. CHIBIA, 1320 M DEEP UNDER LARGE ROCKS NEXT TO KOPPIE IN MIXED SAVANNA WDS. (E.S. ROSS)

ANGOLA: 10 MI. N.W. CONDÉ, 1150 M, V-30-58 (E.S. ROSS) RD BANK NEAR TROPICAL FOREST REMNANT

ANGOLA: 2 MI. N. HENGUE 1550 M, V-29-58 (E.S. ROSS) LICHENS + BARK UNDER RECENT FELLED TREE TRUNK

OLIGOTOMA SAUNDERSII (WESTW.)
ANGOLA: LOANDA (GARDEN OF BRITISH CONSUL) VII-18-57 (E.S. ROSS) BARK OF SHADE TREES

SCELEMBIA MALKINI (ROSS)
ANGOLA: LOANDA (GARDEN OF BRITISH CONSUL) VII-18-57 (E.S. ROSS) BARK OF GARDEN TREES

ANGOLA: 19 MI. N. LOANDA, 100 M. BAOBAB-SCRUB, VI-6-58 SHEET WEB ON SMOOTH BARK, RADIATING FROM LEAF CLUMP IN VINE

ANGOLA: 19 MI. N. LOANDA 100 M, VI-7-58 LICHEN CLUMPS ON BAOBAB

ANGOLA: 19 MI. N. LOANDA DRY LEAVES PRESSED AGAINST SMOOTH PAPERY BARK IN BAOBAB SAVANNA, 100 M, VI-7-58 (E.S. ROSS)

PAROLIGEMBIA ANGOLICA ROSS
ANGOLA: 6 MI. N.E. MOCAMEDES, 120M, V-23-58 (ROSS + LEECH) IN LICHENS ON SIDES OF ROCKS IN FOGGY DESERT

PAROLIGEMBIA ANGOLICA ROSS
UNDER LICHENS ON ROCKS IN FOG DESERT
ANGOLA: 10 MI. N.E. MOCAMEDES (ROSS AND LEECH) 180 M. EL.

ANGOLA: 12 MI. N.W. MUXIMA, 200M, VI-2-58 DRY BARK FLAKES IN DENSE BAOBAB BUSH (E.S. ROSS)

ANGOLA: 12 MI. N.W. MUXIMA, 200M, VI-2-58 LEAF ACCUMULATION IN TREE CROTCH IN DENSE BAOBAB BUSH (ROSS)

ANGOLA: 37 MI. E. PORTO AMBOIM, 200 M, VI-1-58 (E.S. ROSS) EX SINGLE LARGE COLONY ON EXPOSED TRUNK OF BAOBAB IN DENSE THORN BUSH, ALL EMBIIDS IN 2ND INSTAR.

ANGOLA: 34 MI. E. PORTO AMBOIM, 180 M, VI-1-58 (E.S. ROSS) SURFACE + FLAKES SAPLING BARK IN DENSE BAOBAB-THORN BUSH, DRY SEASON.

ANGOLA: NEGOLA, 1550 M, V-26-58 SIDES AND BASES OF ROCKS ON BRACHYSTEGIA-WOODED HILL (ROSS)

ANGOLA: 5 MI. N.W. NOVA LISBOA 1700 M, SMALL STONES ON MATTED LEAVES IN LOW SAVANNA SCRUB (E.S. ROSS) V-28-58

ANGOLA: QUILENDA, 770 M, V-31-58 (E.S. ROSS) BARK IN REMNANT TROPICAL FOREST

ANGOLA: 9 MI. W. QUILENDA (ROCA EMILIA COFFEE PLTN.) 900 M V-31-58 DRY SAPLING STUMP IN TROP. FOREST (E.S. ROSS)

ANGOLA: 20 MI. N.E. SÁ DA BANDEIRA 1650 M V-21-58 (ROSS + LEECH) LICHEN CHIPS ON TERMITE-GUTTED LOGS IN HIGH SAVANNA WOODS

ANGOLA: 17 MI. N.E. SA DA BANDEIRA 1700 M, V-20-58 (E.S. ROSS) UNDER BARK OF FRESH STUMP IN SAV. WOODS

ANGOLA: 20 MI. N.E. SÁ DA BANDEIRA, 1650 M V-21-58 (ROSS + LEECH), LICHEN ENCRUSTED BARK OLD TERMITE GUTTED LOGS

ANGOLA: 5 MI. S. VILLA ARRIAGA, 1000 M, V-21-58, UNDER STONES IN DENSE CYN THICKET WITH BAOBABS. (E.S. ROSS)

ANGOLA: 5 MI. S. VILA ARRIAGA, 900 M V-22-58, (E.S. ROSS) CRACKS + EXFOLIATING FLAKES GRANITE CLIFF IN CYN TUNNELS RADIATE ON SURFACE LICHENS

ANGOLA: 31 MI. N.E. VILA ARRIAGA, 900 M. V-24-58, STONES + DRY LOGS IN SHADE, SAVANNA WOODS. (ROSS)

ANGOLA: 7 MI. N. VILA PEREIRA DE ECA, 1100 M V-16-57, DRY BARK IN MOPANE WOODLAND (E.S. ROSS)

ANGOLA: 19 MI. S. VILA ROCADAS, 1080 M, V-17-58 (ROSS + LEECH) 1 NEST 6" DEEP IN BURROW IN SAND UNDER LOG IN MOPANE WOODS.

ANGOLA: 25 MI. N.W. VILA T. DA SILVA 1720 M, STONES AND BRANCHES ON GROUND IN LOW SAVANNA WOODS (E.S. ROSS)

MOZAMBIQUE

MOZAMBIQUE: 12 MI. E. VILA MACHADO, 100 M, III-14-58 SHADED BARK OF LOW TREES IN HIGH-GRASSLAND
OLIGOTOMA SAUNDERSII (WESTWOOD)

MOZAMBIQUE: 27 MI. E. VILA MANICA, 700 M. III-13-58 (E.S. ROSS) BARK CREVICES OF TALL, DENSE, SAV'WOODS

MOZAMBIQUE: 21 MI. E. VILA PERY 700 M, III-14-58, SURFACE HOLES OF DOME TERMITE MD. IN TROP. FOREST

N. RHOD

N. RHODESIA: 2 MI. N. CHAMBEZI FERRY (KASAMA RD.) 1220 M II-12-58 (ROSS), COARSE BARK FLAKES + CREVICES OF PTEROCARPUS TRUNK IN SAVANNA WOODS

N. RHODESIA: KAFUE, 960 M, III-8-58 SAVANNA WDS. ON HILL N. OF TOWN SHINEY TUNNELS ON UNDERSURFACE OF STONES ON LEAVES (E.S. ROSS)

N. RHODESIA: KALAMBO FALLS (LAKE VIEW-POINT), 1350 M II-17-58 (E.S. ROSS) DRY BRANCH BUTT IN SAVANNA WOODS

N. RHODESIA: 32 MI. N.E. KANONA HOTEL, 1540 M, II-11-58 DRY BARK DEAD TREE IN SAVANNA WOODS

N. RHODESIA: 11 MI. N. KASAMA, 1400M, II-12-58 (E.S. ROSS) DEAD BARK OF STUMP IN SEMI-CLEARED SAVANNA WDS.

N. RHODESIA: 11 MI. N. KASAMA, 1400M II-12-58 (E.S. ROSS) DEAD BARK + LIMBS ON GROUND IN SEMI-CLEARED SAV. WOODS

N. RHODESIA: 3 MI. N. KAPIRI MPOSHI, 1320 M, II-9-58 (E.S. ROSS) LICHEN PATCHES ON LARGE ROCKS OF HIGH KOPJE.

N. RHODESIA: 8 MI. N.E. KAPIRI MPOSHI, 1280 M, II-10-58 UNDER DEAD LIMBS ON GROUND; FLAT, SANDY SAVANNA

N. RHODESIA: 58 MI. N. KASAMA (NR SENGA HILL), 1580 M (E.S. ROSS) BARK CRACKS RECENT FELLED TREE IN BRACHYSTEGIA WOODS

N. RHODESIA: 24 MI. N. LIVINGSTONE, 1180 M, III-7-58 (E.S. ROSS) MATTED LEAVES UNDER LOGS IN SANDY BRACHYSTEGIA WOODS

N. RHODESIA: 31 MI. E. LUSAKA, 1050M, III-3-58 (E.S. ROSS) BARK FLAKES OF STUMP

N. RHODESIA: 8 MI. S.W. NDOLA 1310 M II-9-58 (♀s + EGGS) WEBBED LEAVES IN LOW PLANTS OF HIGH SAVANNA WOODS (ROSS + LEECH)

N. RHODESIA: 4 MI. N. PEMBA, 1250 M, III-4-58 (E.S. ROSS) BARK CRACK OF DEAD STUMP IN LOW SAV. WOODS

N. RHODESIA: 17 MI. S. PEMBA, 1270 M III-5-58 (E.S. ROSS) FRESH BARK ON GROUND IN SAVANNA WOODS

N. RHODESIA: 36 MI. S.E. TUNDUMA, 1400 M, II-19-58 (♀s + 1ST INSTAR) (ROSS) DEAD BARK OF BRANCH BUTTS

NYASALAND

NYASALAND: CHIPANGAPANGA BRIDGE, 13 MI. S.E. FT. HILL, II-20-58 (E.S. ROSS), DRY BARK CREVICES ON HIGH TREES IN SAVANNA SCRUB 2ND GROWTH 1310M

NYASALAND: 10 MI. S. CHOLO, 840M II-26-58 (E.S. ROSS), BARK FLAKES IN WOODLAND

NYASALAND: 16 MI. W. DEDZA 1380 M, II-24-58 (E.S. ROSS) BRANCH ON GROUND IN OPEN SAV. WOODLAND ON HILLS

NYASALAND: 6 MI. N. EKWENDINI, 1200 M, II-21-58, UNDER STONES IN BRACHYSTEGIA WOODS ON HILL

NYASALAND: 31 MI. S.E. FT. HILL, 1310 M, II-20-58 (E.S. ROSS) BARK FLAKES

NYASALAND: 10 MI. E. FT. MANNING, 1120 M, III-2-58 CORKY BARK OF ROADSIDE TREES IN SAV. WOODS (E.S. ROSS)

NYASALAND: 10 MI. E. FT. MANNING, 1120 M, III-2-58 (E.S. ROSS) CORKY BARK CREVICES OF LARGE TREES

NYASALAND: MKUWAZI HILL FOREST, NR. NKATA BAY, 590 M (E.S. ROSS) BARK IN DENSE TROPICAL FOREST

OLIGOTOMA SAUNDERSII (WESTW.) NYASALAND: MKUWAZI HILL FOREST, 11 MI. S. NKATA BAY 590 M (ROSS + LEECH) BARK NR. RD. IN DENSE TROPICAL FOREST

NYASALAND: 10 MI. N. MZIMBA, 1600 M II-23-58 (E.S. ROSS) BARK CREVICE LARGE TREE IN SAVANNA WOODS

TANGANYIKA: IRWIN FARM, 59 MI. S.E. SUMBAWANGA, 1820 M. II-13-58 (ROSS + LEECH) DRY BARK FLAKES + ROCK CREV.

NATAL

NATAL: 33 MI. E. UBOMBO, 83 M, IV-6-58 ROTTING MOSSY BARK OF LOGS IN DENSE, LOW FOREST (ROSS)

NATAL: 10 MI. N. UBOMBO, 160M, IV-4-58. (ROSS + LEECH) STONES AND TRUNKS IN COASTAL PLAIN PARKLAND

S. RHODESIA

S. RHODESIA: 12 MI. S. CHIPINGA, 710 M, III-18-58, SAVANNA WOODS, LICHENS ON UNDERSIDE DEAD LIMBS ON GROUND (E.S. ROSS)

S. RHODESIA: 5 MI. NW. LION'S DEN, (NR. KAROI) 1150 M, III-9-58 (ROSS) LICHENS ON OUTCROP ON WOODED RIDGE

S. RHODESIA: 5 MI. N.W. LION'S DEN, (NR. KAROI) 1050 M III-9-58 (ROSS + LEECH) BARK OF BRANCH ON GROUND ON SAVANNA WOODED RIDGE

S. RHODESIA: 5 MI. N.W. LION'S DEN, (NR KAROI), 1150 M, III-9-58 (ROSS) MATTED LEAVES UNDER ROCKS ON WOODED RIDGE

S. RHODESIA: 11 MI. E. MARANDELLAS, 1600 M, III-12-58 (♀s + 1ST INSTAR) CRACKS OF GRANITE KOPJE

S. RHODESIA: 19 MI. S. MAZUNGA, 540M, III-24-58, MATTED LEAVES UNDER STONES OF LOW KOPJE IN THORN SCRUB

S. RHODESIA: SABI VALLEY, 41 MI. S. UMTALI 640 M, III-17-58 (ROSS) STONES IN BRUSH-BAOBAB BUSH

S. RHODESIA: SALISBURY (AGRIC. STATION), 1475 M, III-11-58 (♀ + 1ST INSTAR) (E.S. ROSS) COARSE BRACHYSTEGIA BARK

S. RHODESIA: SALISBURY, KOPJE, 1480 M, III-11-58 (E.S. ROSS) SIDE OF STONE IN WOODS

S. RHODESIA: PUBLIC CAMP ABOVE UMTALI, 1300 M, III-17-58 (ROSS + LEECH) ROAD BANK CRACKS, LARGE COLONY

S. RHODESIA: UMTALI 1100M, BARK OF FLAME TREES ALONG STS. III-17-58 (E.S. ROSS)

S. RHODESIA: ZAMBEZI ESCARP. 25 MI. S. BEIT BRIDGE 858 M III-8-57 (♀ AND 1ST INSTAR) MATTED LEAVES, EDGE OF STONE IN LOW HILL SAVANNA (E.S. ROSS)

S. RHODESIA: ZAMBEZI ESCARP. 25 MI. S. BEIT BRIDGE, 858 M (ROSS + LEECH) III-8-57 SCATTERED STONES IN LOW SAVANNA

S. RHODESIA: ZAMBEZI VALLEY, 15 MI. S. BETT BRIDGE, 520 M III-8-58 (ROSS) DEAD LIMBS OF HIGH SHRUB IN SHADE OF DENSE BUSH WITH BAOBABS

S. AFRICA

S. AFRICA: BLUFFS S. OF DOORN R. (N. OF CLANWILLIAM), 200 M, V-2-58 (ROSS + LEECH) STONE IN SEMIDESERT BUSH WITH EUPHORBIA

S. AFRICA: DUNBRODY, 160 M IV-18-58, STONES IN SILTY DESERT VALLEY, ACACIA-CACTUS-EUPHORBIA

S. AFRICA: 5 MI. S. GRAHAMSTOWN, 300 M, IV- -58 (E.S. ROSS) ♀s UNDER STONES ON BRUSHY HILLSIDE

S. AFRICA: 3 MI. N. HEROLD C.P. 550 M, IV-23-58 (E.S. ROSS) STONES, CYN. BRUSH, ARID

S. AFRICA: PLETTENBERG BAY IV-22-58 (ROSS + LEECH) C.P. MOSSY LEAF LITTER UNDER DENSE COASTAL BRUSH

S. AFRICA: VAN STADEN'S PASS, 100 M, IV-20-58, STONES IN SHADED RAVINES IN LOW CYN FOREST (E.S. ROSS)

S. AFRICA: VAN STADEN'S PASS, 100 M, IV-20-58, BARK OF TREES IN CYN FOREST (ROSS + LEECH)

S. AFRICA: VAN STADENS PASS, C.P. 100 M, IV-20-58 STONES OR BARK IN LOW CYN. FOREST (ROSS + LEECH)

S. AFRICA: 6 MI. N. WHITTLESEA, C.P. 1000 M, IV-15-58, STONES OF ROCKY OUTCROP IN OPEN PASTURE WITH ACACIA (E.S. ROSS)

S.W. AFRICA

EMBIA SABULOSA ENDL. TOPOTYPES
S.W. AFRICA: KUBUB (RANCH), 1450 M V-6-58 (♀ ♂ MATURE) (ROSS + LEECH) GRANITE STONES EXPOSED OR SHADED RECENT RAIN. SEMI-DESERT ACACIAS

S.W. AFRICA: 3 MI. E. MALTAHÖHE, 1320 M, V-7-58 (E.S. ROSS) UNDER PILED ROADSIDE ROCKS IN ACACIA SCRUB

S.W. AFRICA: 15 MI. N. OKAHANDJA, 1460 M, V- -58 1ST INSTAR UNDER STONES IN THORN BUSH OF ROCKY RIDGE (ROSS + LEECH)

S.W. AFRICA: 2 MI. N.W. OUTJO 1250 M V-14-58 (E.S. ROSS) UNDER STONES ON FLATS NEAR BUT NOT ON, ROCKY RIDGE, SHADE OF ACACIA SCRUB, MOST EX 1 NEST WITH 1ST INSTAR.

S.W. AFRICA: RIETFONTEIN, ETOSHA PAN, 1050 M, V-15-58 GRASS-SHRUB, 1ST INSTAR UNDER LIME STONE NEXT TO WATER HOLE